Chart Collection for Morning Briefing

Yardeni Research, Inc.

May 2, 2018

Dr. Edward Yardeni

516-972-7683 eyardeni@yardeni.com

Mali Quintana

480-664-1333 aquintana@yardeni.com

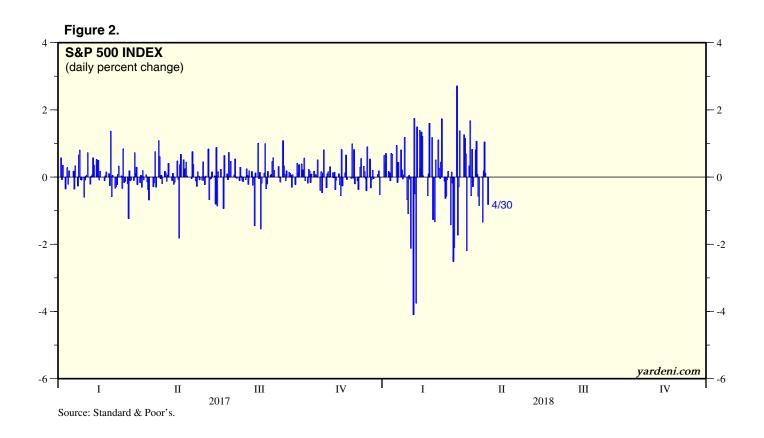
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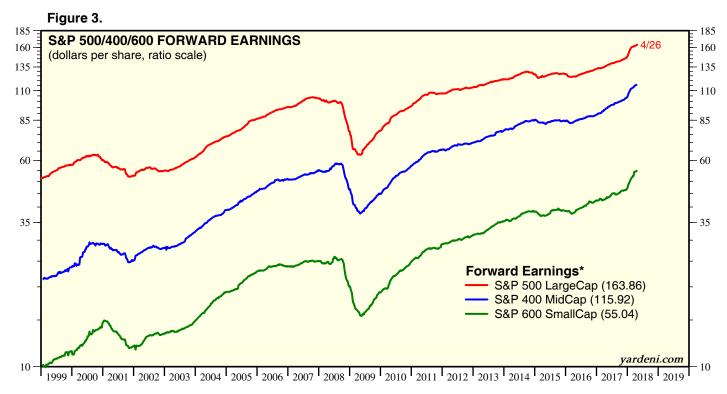


thinking outside the box

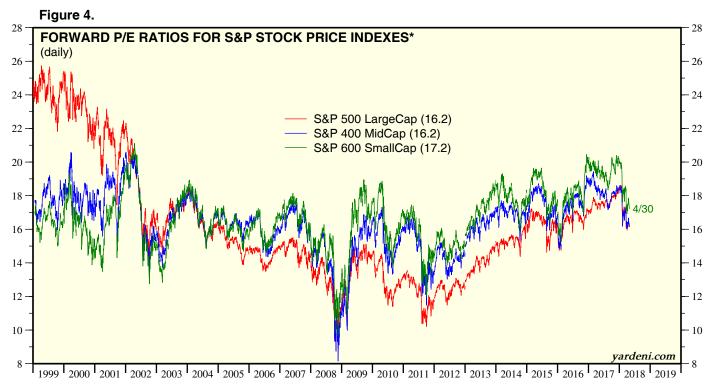


Note: Dotted lines show previous years' closing prices. Source: Standard & Poor's.

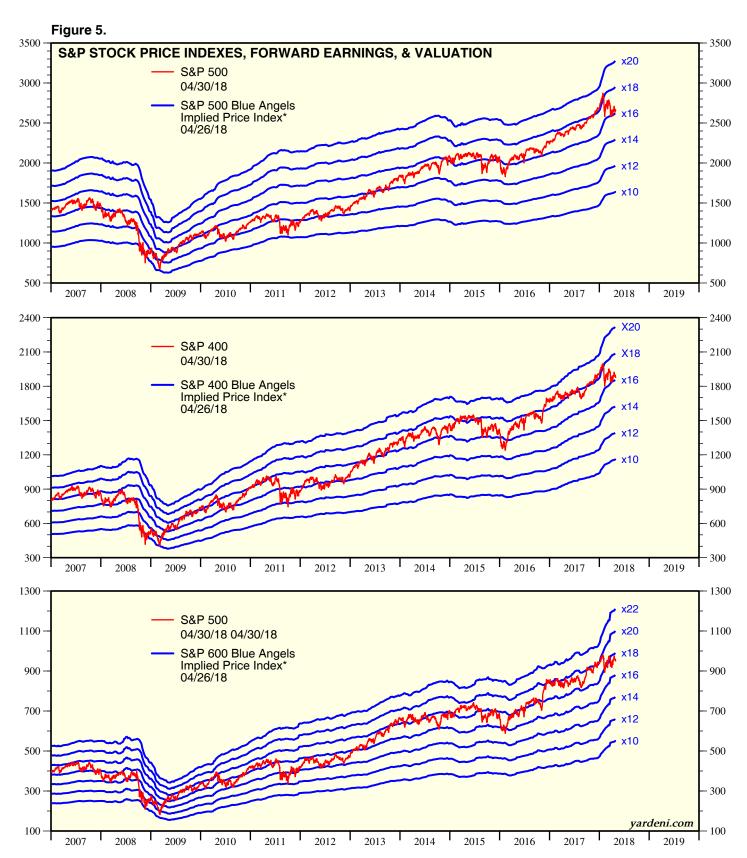




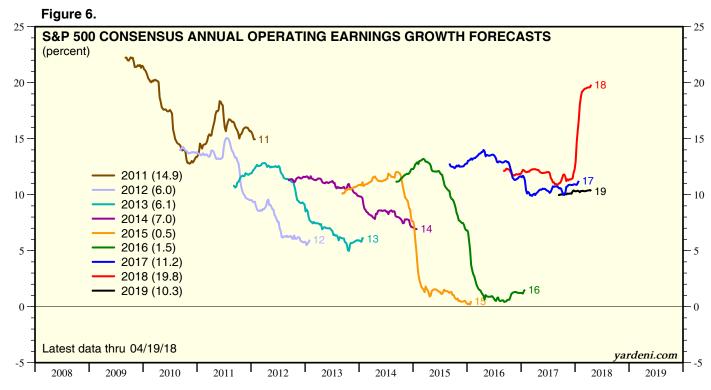
^{*} Time-weighted average of consensus estimates for current year and next year. Source: Thomson Reuters I/B/E/S.

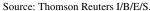


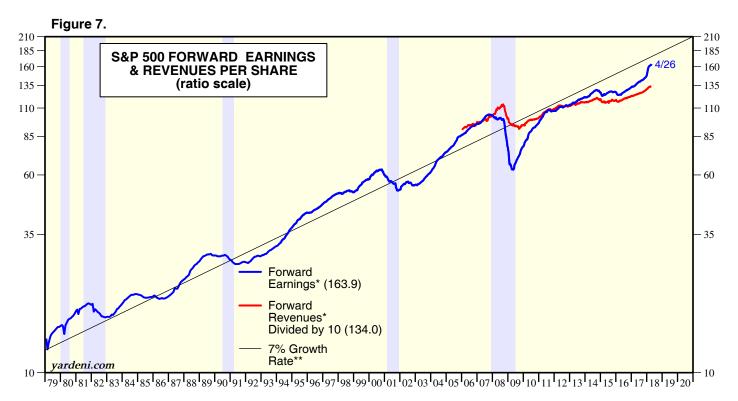
^{*} Daily stock price index divided by 52-week forward consensus expected operating earnings per share. Source: Thomson Reuters I/B/E/S and Standard & Poor's.



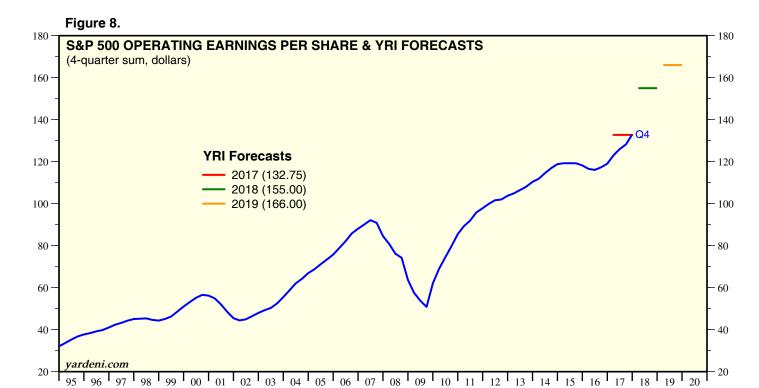
^{*} Implied stock price index calculated using actual 52-week consensus expected forward earnings times hypothetical forward P/Es. Source: Standard & Poors and Thomson Reuters I/B/E/S.



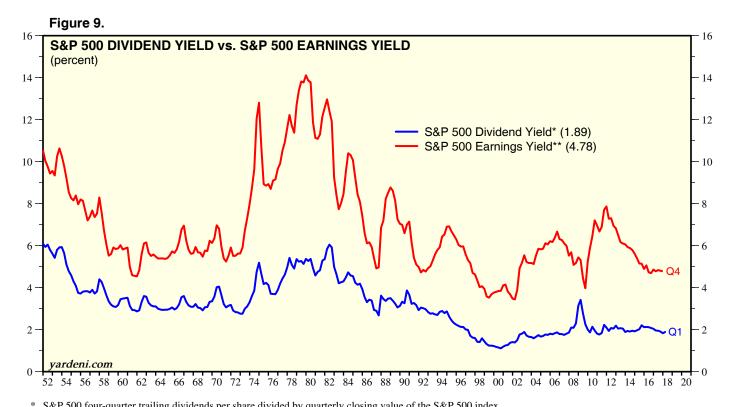




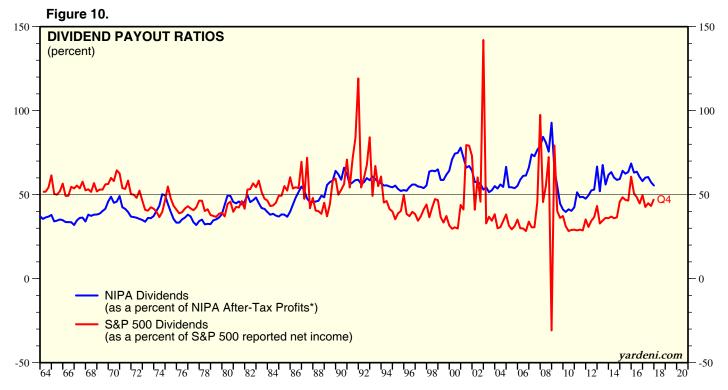
Time-weighted average of consensus estimates for current and next year. Monthly through April 1994, then weekly. Compounded monthly to yield 7% annually. Note: Shaded areas denote recessions according to the National Bureau of Economic Research. Source: Thomson Reuters I/B/E/S.



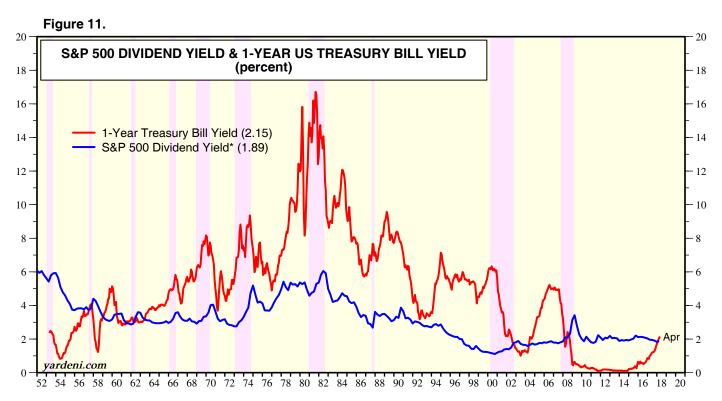
Source: Thomson Reuters I/B/E/S.



 ^{*} S&P 500 four-quarter trailing dividends per share divided by quarterly closing value of the S&P 500 index.
 ** Using quarterly average of daily data for S&P 500 price index, and 4-quarter trailing reported earnings through Q3-1988, then operating earnings. Source: Standard & Poor's and Federal Reserve Board.



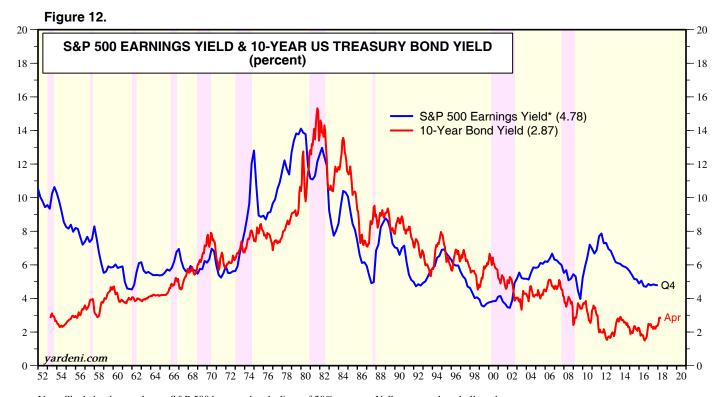
^{*} From Current Production. Including IVA & CCadj. These two adjustments restate the historical cost basis used in profits tax accounting for inventory withdrawals and depreciation to the current cost measures used in GDP. Source: Bureau of Economic Analysis and Standard & Poor's.



Note: Shaded red areas denote S&P 500 bear market declines of 20% or more. Yellow areas show bull markets.

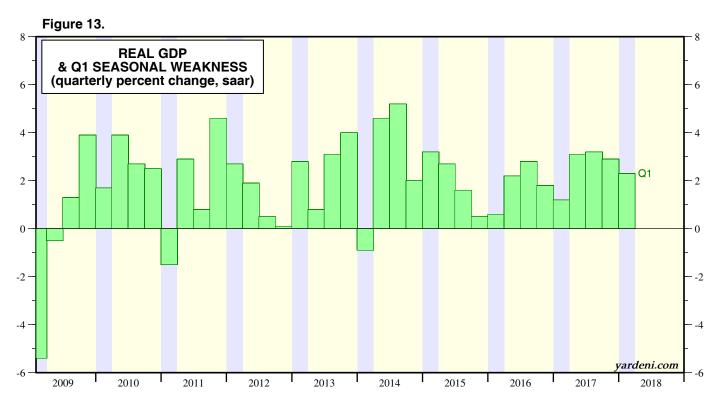
* S&P 500 four-quarter trailing dividends per share divided by quarterly closing value of the S&P 500 index.

Source: Standard & Poor's and Federal Reserve Board.

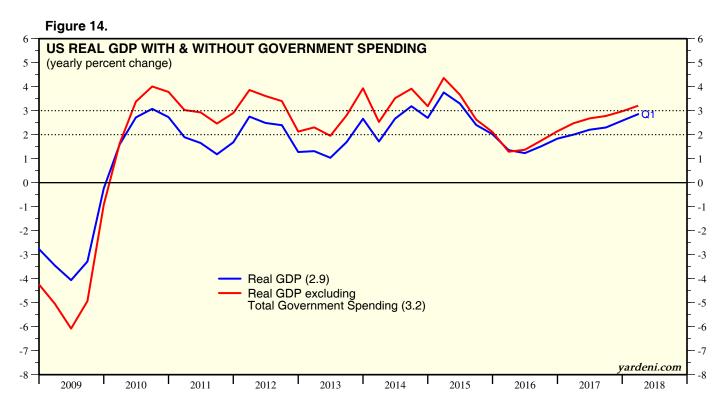


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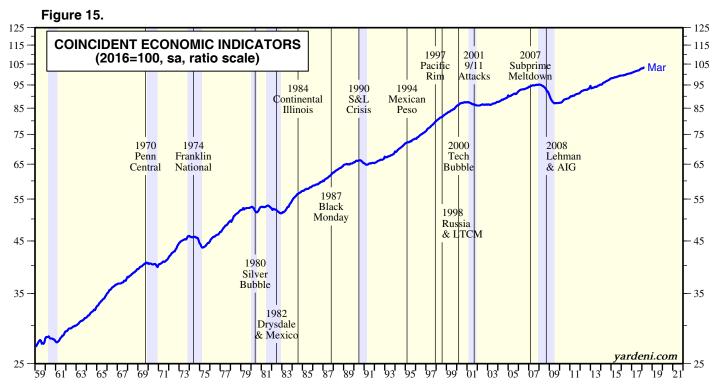
* Using quarterly average of daily data for S&P 500 price index, and 4-quarter trailing reported earnings through Q3-1988, then operating earnings. Source: Standard & Poor's and Federal Reserve Board.



Note: Blue shaded areas denote first quarter of each year. Source: Bureau of Economic Analysis.



Source: Bureau of Economic Analysis.



Note: Shaded areas denote recessions according to the National Bureau of Economic Research. Source: The Conference Board.

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